



# Theodore Santiago

## Embedded Systems Software Intern

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### SUMMARY

Driven embedded systems software intern eager to contribute skills in collaborative environments. Strong background in C/C++ programming with hands-on experience in developing innovative solutions for complex challenges. Proven record of working effectively within teams, learning rapidly and applying knowledge gained from formal education. Ready to engage in advanced projects that promote professional growth while supporting organization goals. Deeply passionate about embedded systems, continuously seeking opportunities to enhance technical capabilities. Commitment extends beyond personal achievements; influencing team dynamics positively remains a priority.

### EDUCATION

#### Bachelor's Degree in Computer Engineering

University of Illinois at Chicago 🎓 GPA: 3.5 📅 2026 📍 Chicago, IL

**Coursework:** *Digital Logic, Microcontrollers, Embedded Programming, Signal Processing*

### TECHNICAL SKILLS

- **Programming Languages:** C, C++
- **Operating Systems:** Linux, Windows
- **Development Tools:** Eclipse, Visual Studio
- **Methodologies:** Agile, Scrum
- **Version Control Systems:** Git, SVN
- **Simulation Tools:** MATLAB, Simulink
- **Documentation Tools:** LaTeX, Markdown
- **Debugging Tools:** GDB, Valgrind
- **Continuous Integration:** Jenkins, Travis CI
- **Embedded Systems:** ARM, Raspberry Pi

### EXPERIENCE

#### Embedded Software Engineer

Tech Innovations Inc. 📅 June 2025 - Present 📍 Chicago, IL

Engaged in designing and implementing software solutions tailored for embedded systems. Collaborate closely with cross-functional teams to ensure seamless integration and performance improvements.

- Designed software applications using C/C++, ensuring robust functionality.
- Conducted thorough testing within real-time operating environments, optimizing application performance.
- Led code reviews, fostering a culture of continuous improvement within the development team.
- Drove troubleshooting initiatives, directly contributing to resolving critical software issues.

#### Software Engineering Intern

Future Electronics Co. 📅 June 2024 - May 2025 📍 Chicago, IL

Focused on assisting senior engineers to develop embedded software applications incorporating practical skill-building activities.

- Contributed to hardware integration tasks, enhancing project deliverables through collaboration.
- Conducted software testing to validate functionality and reliability of applications.
- Participated actively in brainstorming sessions, helping shape product decisions.
- Developed competence in coding practices under guidance, solidifying foundational knowledge.

### STRENGTHS

- 👥 **Team Collaboration**  
Regularly facilitated workshops where team members exchanged ideas, increasing overall synergy.
- 💡 **Problem-Solving**  
Developed a solution to streamline testing processes during my internship, greatly improving turnaround time.
- 🔄 **Adaptability**  
Transitioned swiftly between various coding languages, quickly mastering new tools when assigned unfamiliar tasks.
- 📖 **Passion for Learning**  
Attended numerous workshops expanding my understanding of embedded systems beyond classroom knowledge.
- 🔗 **Technical Proficiency**  
Refined my abilities in C/C++ significantly through hands-on projects, earning respect from peers and mentors alike.

### SKILLS

C/C++ programming

Embedded systems development

Real-time operating systems (RTOS)

Team collaboration

Problem-solving   Code review

Troubleshooting   Prototyping

Firmware development

Hardware integration

Software debugging

Collaboration tools

Agile methodologies

Version control Testing strategies

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Embedded Software Engineer at Tech Innovations Inc. (1 Years)

● Software Engineering Intern at Future Electronics Co. (11 Months)

## LEADERSHIP & AWARDS

- Dean's List - Recognized for academic excellence with a GPA above 3.5 throughout undergraduate studies.
- Engineering Club President - Led multiple initiatives to foster engagement among peers and increased membership.

## CERTIFICATIONS

- Certified Embedded Systems Engineer 📅 2025
- C/C++ Certified Associate Programmer 📅 2025

## PROFESSIONAL AFFILIATIONS

- Member of IEEE - Engage in innovation discussions and networking events focused on engineering advancements.
- Volunteer Tutor - Help fellow students grasp complex engineering concepts, strengthening peer learning.

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST